



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 P.H. Engg: Sub Divn: Multan
 (Construction of Sewerage Line, Mettal Road/ Tuff Tile Basti Taheem Wali, New Basti, Basti Bagh Wali via Pull Thokar to Mithu Olikh Pul and Rehabilitation of Metal Road pul Thokar to Pul Qasim Pur, Tehsil & District Multan
 Reference # CED/TFL **1681** (Dr. Ali Ahmed)
 Reference of the request letter # 1094

Dated: 14-07-2022
 Dated: 08-04-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.124	3/16	0.215	-----	0.036	1040	1240	-----	62990	-----	75100	1.50	18.8	
2	0.165	1/4	0.248	-----	0.048	1640	2000	-----	74740	-----	91200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S CSCEC
PKM M5 Section 1
Sangi Camp Sakhar Pakistan

Reference # CED/TFL 1711 (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 25-07-2022
Dated: 25-07-2022

Tension Test Report (Page – 1/1)

Date of Test 28-07-2022
Gauge length -----
Description Tension Wire & G.I Wire Tensile Test

Sr. No.	Measure Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	840	8.24	Tension Wire
2	3.10	400	3.92	G.I Wire
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Two Samples for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/07/1714

Dated: 25-07-2022

Dated of Test: 28-07-2022

To,
Resident Engineer
Consulting Associates
Bridge on Tochi River, NWTD

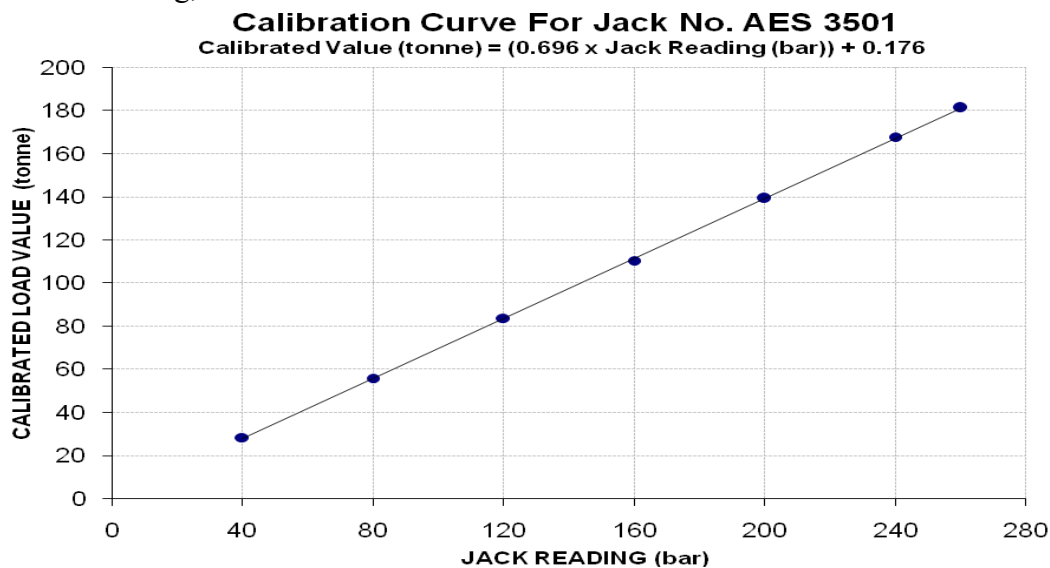
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/1714) (Page -1/2)

Reference to your Letter No. CA/BB/Site/Lab/02, Dated: 25/07/2022 on the subject cited above. One Hydraulic Jack (Jack No 3501, Gauge No. AES-3501) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	260	
Calibrated Load	(kg)	28400	56000	83800	110400	139400	167800	181400
	Tonne	28.40	56.00	83.80	110.40	139.40	167.80	181.40
Calibrated Pressure (bar)	41.07	80.98	121.18	159.64	201.58	242.64	262.31	

1 Tonne = 1000 kg, The Ram Area of Jack = 678.20 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/07/1714

Dated: 25-07-2022

Dated of Test: 28-07-2022

To,
Resident Engineer
Consulting Associates
Bridge on Tochi River, NWTD

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/07/1714) (Page -2/2)

Reference to your Letter No. CA/BB/Site/Lab/02, Dated: 25/07/2022 on the subject cited above. One Hydraulic Jack (Jack No 3502, Gauge No. AES-3502) as received by us has been calibrated. The results are tabulated as under:

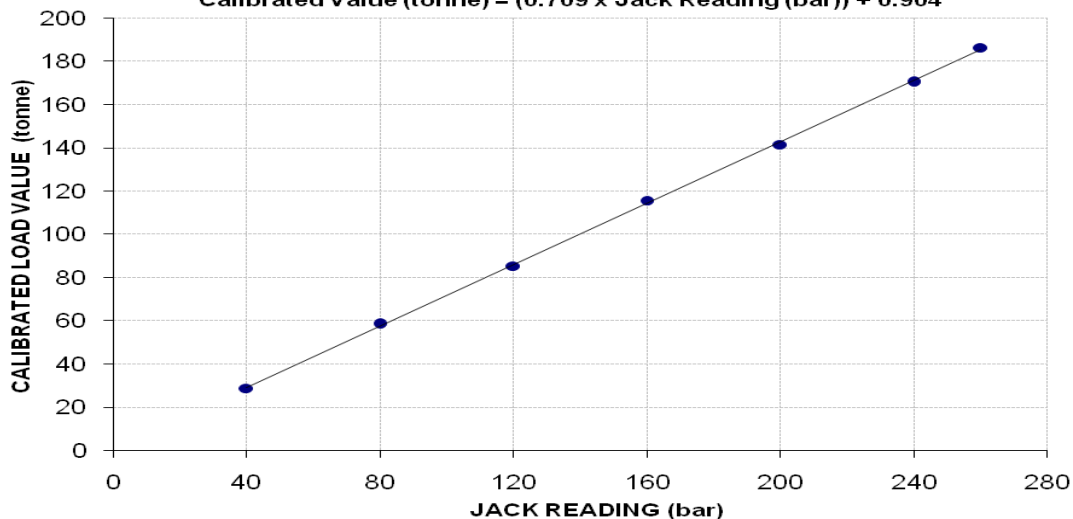
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 260 (bar)

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	260	
Calibrated Load	(kg)	28800	58600	85400	115600	141600	170400	186400
	Tonne	28.80	58.60	85.40	115.60	141.60	170.40	186.40
Calibrated Pressure (bar)	41.65	84.74	123.49	167.16	204.76	246.40	269.54	

1 Tonne = 1000 kg, The Ram Area of Jack = 678.20 cm²

Calibration Curve For Jack No. AES 3502

Calibrated Value (tonne) = (0.709 x Jack Reading (bar)) + 0.904



I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Nimbus Engineering Corporation (Pvt) Ltd
Lahore

Reference # CED/TFL **1715** (Dr. Ali Ahmed)
Reference of the request letter # NECL/288

Dated: 26-07-2022

Dated: 26-07-2022

Tension Test Report (Page – 1/2)

Date of Test 28-07-2022
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa		
1	9.53 (3/8")	432.0	458.0	8000	78.48	9200	90.25	199	<3.50 Not ok	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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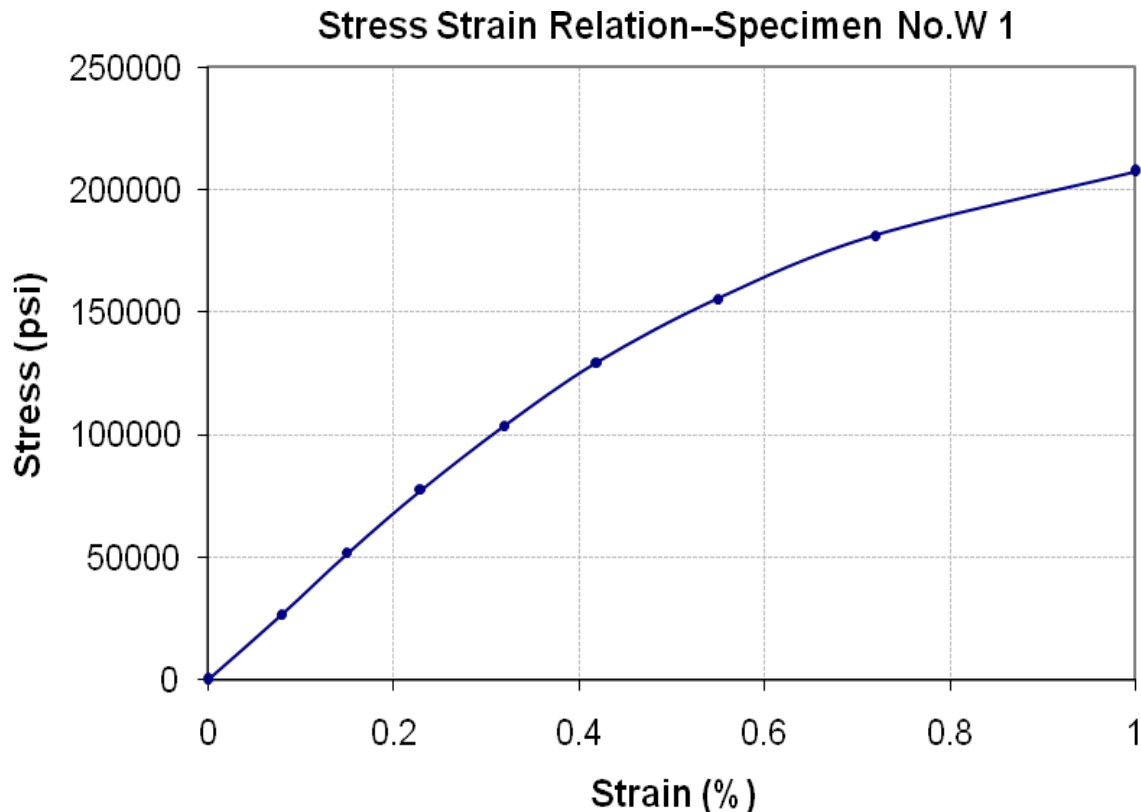
To,
M/S Nimbus Engineering Corporation (Pvt) Ltd
Lahore

Reference # CED/TFL 1715 (Dr. Ali Ahmed)
Reference of the request letter # NECL/288

Dated: 26-07-2022

Dated: 26-07-2022

Graph (Page – 2/2)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Civil Engineer
 The Cooperative Model Town Society Ltd, Lahore
 Modification of Multiplex Building into Society Head Office Model Town Lahore

Reference # CED/TFL **1716** (Dr. Ali Ahmed)
 Reference of the request letter # CE Misc 1402/21

Dated: 26-07-2022
 Dated: 25-07-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.375	0.11	0.111	4000	5000	80200	79640	100200	99600	1.20	15.0	
2	0.384	3	0.379	0.11	0.113	4200	5000	84200	81910	100200	97600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Senior Manager (Civil)
 Systems Limited, Lahore
 Real Tower Systems Limited.

Reference # CED/TFL 1717 (Dr. Ali Ahmed)
 Reference of the request letter # SYS-RT-UET-001

Dated: 26-07-2022
 Dated: 26-07-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3	0.373	0.11	0.110	3200	4600	64200	64400	92200	92600	1.20	15.0	
2	0.365	3	0.370	0.11	0.107	3200	4600	64200	65740	92200	94500	1.10	13.8	
3	0.381	3	0.378	0.11	0.112	3700	4800	74200	72810	96200	94500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Director
 Infrastructure Development Authority of The Punjab
 Pilot Program for Hub and Spoke Model at Zahir Pir, Rahim Yar Khan

Reference # CED/TFL **1718** (Dr. Ali Ahmed)
 Reference of the request letter # PD/ZP/IDAp/SO/2022/22

Dated: 26-07-2022
 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3	0.372	0.11	0.109	3100	5000	62200	62970	100200	101600	1.00	12.5	Five Star Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Executive Engineer-IV
 Central Civil Division No.1
 Pak PWD, Lahore
 (Institutional Strengthening and Augmentation of Training and Research and Function of Public Policy (Sh: Construction of New Office Block)
 Reference # CED/TFL **1721** (Dr. Ali Ahmed) Dated: 27-07-2022
 Reference of the request letter # AEE-IV/CCD-I/LHR-97 Dated: 27-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.362	3/8	0.368	0.11	0.107	2800	4500	56200	57940	90200	93200	1.20	15.0	
2	0.362	3/8	0.368	0.11	0.106	2700	4400	54100	55960	88200	91200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Chakwal
 (Establishment of University of Chakwal – Student Services & Medical Centre Ground / First Floor with Additional Items & Architectural Features - Group No. 3)
 Reference # CED/TFL 1722 (Dr. Ali Ahmed) Dated: 27-07-2022
 Reference of the request letter # 237/ck Dated: 15-02-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3/8	0.375	0.11	0.111	4000	5000	80200	79640	100200	99600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Project Engineer
 Defence Housing Authority
 Construction of Villas (Block – E)

Reference # CED/TFL **1723** (Dr. Ali Ahmed)
 Reference of the request letter # 111/3/APE Bldgs/Gen/19

Dated: 27-07-2022
 Dated: 27-07-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3	0.374	0.11	0.110	3000	4700	60200	60300	94200	94500	1.50	18.8	Afco Steel
2	0.044	3	0.128	0.11	0.013	2900	4700	58200	497700	94200	806700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer
 NESPAK
 Infrastructure Development of Quaid-e-Azam Business Park on Motorway M-2, District
 Sheikhpura

Reference # CED/TFL **1725** (Dr. Ali Ahmed)

Dated: 28-07-2022

Reference of the request letter # 4163/11/MY/02/272

Dated: 20-06-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.094	3/16	0.188	-----	0.028	680	960	-----	54250	-----	76600	1.40	17.5	
2	0.094	3/16	0.188	-----	0.028	760	1100	-----	60650	-----	87800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

3/16" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Associates in Development (Pvt) Ltd
Islamabad
(Dhartian Bridge)

Reference # CED/TFL 1726 (Dr. Asif Hameed)
Reference of the request letter # RD/AID/201

Dated: 28-07-2022
Dated: 28-07-2022

Tension Test Report (Page – 1/1)
Date of Test 28-07-2022

Description: Steel Wire Rope Tensile Test

Material (reported) = Steel

Product (Obvious) = Wire Rope (Six strands helically laid around a core, in total seven strands)

Nominal diameter (reported) = 32 mm

Condition (Observed from image) = Used

Standard of manufacture = Unknown

Mechanical properties of wire = Unknown

Grips used for testing = V Grips

Test Length = 60cm (Proposed and agreed by client)

Sr. No.	Nominal Diameter (mm)	Measured Diameter (mm)	Measured Weight (kg/m)	Breaking Load (Tons)	Remarks
1	32	35	5.03	64	Break near the grips

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Construction Manager
Guarantee Engineers (Pvt) Ltd
Beaconhouse School System TNS 2.0 Gulberg-III Lahore

Reference # CED/TFL 1729 (Dr. Ali Ahmed)
Reference of the request letter # TNS/GE/ST/014

Dated: 28-07-2022
Dated: 28-07-2022

Tension Test Report (Page -1/1)

Date of Test 28-07-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	10	9.44	0.12	0.108	3770	4760	69261	76620	87449	96800	1.40	17.5	
2	0.371	10	9.46	0.12	0.109	3360	4510	61729	67930	82856	91200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Muhammad Ali Khan (A.M.C)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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